

RESEARCH PROPOSAL TO CEBAF

30 October 1989

MEDIUM EFFECTS ON THE ($e, e' p$) NUCLEON KNOCKOUT REACTION

C. C. Chang, P. Boberg, N. S. Chant, H. D. Holmgren, M. A. Khandaker,
and P.G. Roos
University of Maryland, College Park, MD 20742

W. Bertozzi, S. Penn, and L. Weinstein
Massachusetts Institute of Technology, Cambridge, MA 02139

R. W. Lourie
University of Virginia, Charlottesville, VA 22901

J. M. Finn and C. Pedrisat
College of William and Mary, Williamsburg, VA 23185

W. R. Dodge, J. W. Lightbody, and J. S. O'Connell
NIST, Washington, DC 20234

B. S. Flanders
American University, Washington, DC 20016

M. B. Epstein and D. J. Margazis
California State University, Los Angeles, CA 90032

J. Calarco
University of New Hampshire, Durham, NH 03824

J. Mougey, A. Saha, and P. Ulmer
CEBAF, Newport News, VA 23606

Spokesperson: Paul Boberg, University of Maryland
Co-Spokesperson: C. C. Chang, University of Maryland

ABSTRACT

We propose to measure the quasielastic proton knockout reaction on two target nuclei over a large range of 4-momentum transfer (Q^2). The measurement would be performed in Hall A. The main objective of this experiment is to investigate the medium modification on the nucleon properties in nuclei.